

ABSTRACTMACHINE FOR TENDING ELECTROLYTIC CELLS USED FOR THE
PRODUCTION OF ALUMINIUM

The invention relates to a rotating mechanical and electrical connecting device (100) between a transport module (6) and handling and working devices in a fused bath electrolysis aluminium production plant, characterised in that it comprises a "fixed" frame (101) fitted with a hub (102), a sleeve (121) surrounding the hub (102) and capable of rotating about the hub, first (110) and second (120) "rotating" frames capable of rotating about the sleeve (121), sliding rotating electrical contacts (113, 114) between the frames and the drive systems (140, 141, 142, 150, 151, 152) to make the frames rotate with respect to each other about a common axis (103). The connecting device according to the invention enables a rotation with no angular limit between the three frames, while making a permanent electrical link between them.

Figure 3.